**Index of Claims** 

| Application/Control No. | App | lication/ | Control | No. |
|-------------------------|-----|-----------|---------|-----|
|-------------------------|-----|-----------|---------|-----|

10/750,848

Examiner

ARMANDO RODRIGUEZ

Applicant(s)/Patent under Reexamination

UM, KEE TAE

**Art Unit** 

2828

| √ | Rejected |
|---|----------|
| _ | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| i | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla         | aim      | _        |   | _        |          | Dat          | e_   |          |          |  | ] | Cla         | aim      | D        |  |                                     |          |   |
|-------------|----------|----------|---|----------|----------|--------------|--|----------|----------|--|---|-------------|----------|----------|--|-------------------------------------|----------|---|
| Final       | Original | 11/14/05 |   |          |          |              |  |          |          |  |   | Final       | Original |          |  |                                     |          |   |
|             | 1        | √        | Т | $\vdash$ | -        | -            | $\vdash$   | $\vdash$ | $\vdash$ |  |   |             | 51       |          | <u> </u>   |                                     | -        | t |
|             | 2        | V        |   |          | Г        |              |  | Г        |          |  | ĺ |             | 52       |          |  |                                     |          | T |
|             | 3        | ✓        |   |          |          |              |  |          |          |  |   |             | 53       |          |  |                                     |          | Ι |
|             | 4        | ✓        |   |          |          | $oxed{oxed}$ |  |          |          | L  |   |             | 54       |          |  | <u> </u>                            |          | L |
|             | 5        | <        |   | <u> </u> | _        | L_           | _  | _        | _        |  | Į |             | 55       |          | <u> </u>   | <u> </u>                            | <u> </u> | L |
| <u> </u>    | 6        | V        |   |          | <u> </u> | <u> </u>     | _  | _        | <u> </u> | _  | Į |             | 56       |          | _  | _                                   | L        | Ļ |
| <u> </u>    | 7        | √,       | _ | _        | -        | _            | ┡  | ┝        | <u> </u> | _  |   |             | 57       | _        | _  | <u> </u>                            | _        | Ļ |
| <u> </u>    | 8        | , <      | _ | ┝        | ⊢        | -            | -  | ⊢        | ┝        | -  |   |             | 58<br>59 |          | <del> </del> —                                   | ⊢                                   |          | ╀ |
| -           | 10       | √<br>√   |   | -        | ⊢        | ⊢            | ⊢  | $\vdash$ | ⊢        | ⊢  | 1 |             | 60       | $\vdash$ | $\vdash$   | -                                   | -        | ╀ |
|             | 11       | <b>∨</b> | _ | -        | ⊢        | $\vdash$     | ┢  | H        | ├─       | $\vdash$   |   | <del></del> | 61       |          |  | ┢                                   | ┝        | t |
|             | 12       | <b>∨</b> |   | -        |          | $\vdash$     | ╁╌╴  | -        | -        | ╌  | l |             | 62       | -        | <del>                                     </del> | ⊢                                   | $\vdash$ | t |
| <u> </u>    | 13       | ľ        |   |          | -        | $\vdash$     | $\vdash$   |          |          | 1  |   |             | 63       |          |  |                                     | $\vdash$ | t |
|             | 14       |          |   | $\vdash$ | $\vdash$ | Т            | Н  | T        | $\vdash$ |  |   | <b></b>     | 64       | $\vdash$ | _  | $\vdash$                            | -        | t |
|             | 15       |          |   |          |          | $\vdash$     | Г  |          |          |  |   |             | 65       | $\vdash$ |  |                                     |          | t |
|             | 16       |          |   |          |          |              |  |          |          |  |   |             | 66       |          |  |                                     |          | T |
|             | 17       |          |   |          |          |              |  |          |          |  |   |             | 67       |          |  |                                     |          | Γ |
|             | 18       |          |   |          |          |              |  |          |          |  |   |             | 68       |          |  |                                     |          | L |
|             | 19       |          |   |          |          |              |  |          |          |  |   |             | 69       |          |  |                                     |          | L |
|             | 20       |          |   |          | <u> </u> | _            |  |          | _        |  |   |             | 70       |          | _  |                                     |          | L |
|             | 21       |          |   |          | L        |              | _  | <u> </u> |          |  |   |             | 71       |          | <u> </u>   |                                     | L_       | L |
| <u> </u>    | 22       | L        |   | <u> </u> |          |              | <u> </u>   | <u> </u> | _        | L  |   |             | 72       |          | _  | _                                   | <u> </u> | L |
| <u> </u>    | 23       | Ш        |   | <u> </u> | <u> </u> | _            | _  | <b> </b> |          |  |   |             | 73       | _        |  | _                                   | _        | Ļ |
|             | 24       | Н        | _ |          | _        | _            |  | -        |          | _  |   |             | 74       | -        |  | <b> </b>                            |          | ╀ |
| <u> </u>    | 25<br>26 | $\vdash$ |   |          |          |              | <del>                                     </del> | ⊢        | _        | <u> </u>   |   | _           | 75<br>76 | $\vdash$ | $\vdash$   | ┝                                   |          | ╁ |
| <u> </u>    | 27       | $\vdash$ | _ | _        | -        | -            | ⊢  | $\vdash$ | ┝        | ╁  |   | _           | 77       | $\vdash$ | $\vdash$   | ┝                                   | _        | ╁ |
|             | 28       |          |   |          |          | -            | -  | -        | -        | -  |   |             | 78       |          | $\vdash$   | -                                   | $\vdash$ | t |
| -           | 29       | Н        |   |          |          |              | $\vdash$   |          | -        | 1  |   |             | 79       | Н        | $\vdash$   | $\vdash$                            |          | H |
|             | 30       |          |   |          |          |              |  |          |          |  |   |             | 80       |          | $\vdash$   |                                     |          | t |
|             | 31       |          |   |          |          | $\vdash$     |  |          |          | 1  |   |             | 81       |          | Г  |                                     |          | t |
|             | 32       |          |   |          |          |              |  |          |          |  |   |             | 82       |          |  |                                     | $\Box$   | T |
|             | 33       |          |   |          |          |              |  |          |          |  |   |             | 83       |          |  |                                     |          | Γ |
|             | 34       |          |   |          |          |              |  |          | <u> </u> |  |   |             | 84       |          | L  |                                     |          | L |
|             | 35       |          |   |          |          | <u> </u>     | _  | _        | _        |  |   |             | 85       |          | _  | _                                   | _        | L |
|             | 36       |          |   |          | _        | _            | _  | ļ        | <u> </u> | _  |   |             | 86       |          | _  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | L |
|             | 37       | Ш        | _ |          |          | <u> </u>     | <u> </u>   | _        | ┡        | L  |   |             | 87       |          | <u> </u>   | _                                   | <u> </u> | Ļ |
| <u> </u>    | 38       | Ш        |   |          | -        | _            | <u> </u>   |          | _        | _  |   |             | 88       | _        | <u> </u>   | _                                   | _        | ╀ |
|             | 39<br>40 | _        | _ |          | _        | <u> </u>     | ⊢  | _        | ┝        | ⊢  |   |             | 89       |          | <u> </u>   | _                                   | _        | ╀ |
|             | 41       | Н        |   | _        | -        | $\vdash$     | -  | $\vdash$ | ├─       | -  |   |             | 90<br>91 | -        | ┝  | -                                   | _        | ╀ |
| <del></del> | 42       | Н        | _ | -        | -        | ⊢            | $\vdash$   | $\vdash$ |          | ├  |   |             | 92       | -        | ⊢  | -                                   | -        | ╀ |
| <u> </u>    | 43       | $\vdash$ | _ | $\vdash$ | $\vdash$ | ┝            | ┢╾   | -        | -        | ┢  |   |             | 93       |          | Η.   | -                                   |          | H |
|             | 44       | $\vdash$ | _ | -        | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$   |   |             | 94       | H        |  | $\vdash$                            | $\vdash$ | H |
| $\vdash$    | 45       | H        | - | -        |          | _            | $\vdash$   | $\vdash$ | $\vdash$ | <del>                                     </del> |   |             | 95       | М        |  | $\vdash$                            | _        | t |
|             | 46       | П        |   |          |          |              | $\vdash$   | Г        | $\vdash$ |  |   |             | 96       |          |  | Г                                   |          | t |
|             | 47       |          |   |          |          |              |  |          |          |  |   |             | 97       |          |  |                                     |          | T |
|             | 48       |          |   |          |          |              |  |          |          |  |   |             | 98       |          |  |                                     |          | Γ |
|             | 49       |          |   |          |          |              |  |          |          |  |   |             | 99       |          |  |                                     |          |   |
|             | 50       |          |   |          |          |              |  | Ĺ        | 匚        |  |   |             | 100      |          |  |                                     |          |   |

| Cla      | aim      | Г        |              |          |  | Date   | e.       |          |              |               |
|----------|----------|----------|--------------|----------|--|--|----------|----------|--------------|---------------|
| -        |          | _        | Ι-           | т        |  | <u> </u>   | Ť        |          | Г            |               |
| Final    | Original |          |              |          |  |  |          |          |              |               |
| -        | 51<br>52 |          | -            | ┢        | -  | -  |          |          |              | H             |
|          | 52       | _        | 1            |          |  |  |          |          |              |               |
| -        | 53       | _        | -            | ├        | $\vdash$   | _  | -        | $\vdash$ | ┝            | $\vdash$      |
|          | 53       | ┝        | H            | ⊢        | -  | -  | -        | -        | <u> </u>     | -             |
| -        | 54<br>55 | ļ        | <u> </u>     | ļ        | ┡  | $\vdash$   | <u> </u> | L        | <u> </u>     | -             |
|          | 55       | _        | <u> </u>     | <u> </u> | <u> </u>   | ļ  | ļ        | _        | _            |               |
|          | 56       | _        | _            | L        | L  | L  |          | _        | L            |               |
| <u> </u> | 57       |          |              |          |  |  |          |          |              |               |
|          | 58       |          |              | L        |  |  |          |          |              |               |
|          | 59       | Г        | Г            | Г        | Г  | Г  |          | <u> </u> |              |               |
|          | 60       |          |              |          | Г  | Г  |          | _        | Г            |               |
|          | 61       |          | -            |          |  |  |          |          |              |               |
|          | 62       | -        | _            | H        | $\vdash$   | ┪  | ┢        | -        | <del> </del> | $\vdash$      |
| -        | 63       | $\vdash$ | $\vdash$     | ┢        | $\vdash$   | -  | $\vdash$ | ┝╌       | -            | -             |
|          | 64       | ├-       |              | ⊢        | -  | <del> </del>                                     | -        | -        | -            | _             |
| -        |          |          |              | ⊢        | ⊢  | ⊢  | -        | ├-       | ⊢            | _             |
| -        | 65       | <u> </u> | _            | <u> </u> | _  | ┡  | <u> </u> | <u> </u> | <u> </u>     |               |
|          | 66       | L.       |              | <u> </u> |  | <u> </u>   | L        | _        |              | <u> </u>      |
|          | 67       | _        | _            | L.       |  |  |          |          |              |               |
|          | 68       |          |              | _        | _  |  | L        |          |              |               |
|          | 69       |          |              |          |  |  |          |          |              |               |
|          | 70       |          |              |          |  |  |          |          |              |               |
|          | 71       |          | Π            |          |  |  |          |          |              |               |
|          | 72       |          |              | П        |  |  | Г        |          |              |               |
|          | 73       |          |              |          |  |  |          |          |              |               |
|          | 74       |          |              |          |  |  |          |          |              |               |
|          | 75       |          | Г            | Г        |  |  |          |          |              |               |
|          | 76       |          | Г            |          |  |  |          |          |              |               |
|          | 77       |          | Г            | Г        |  |  |          |          |              |               |
|          | 78       |          |              |          |  |  |          |          |              |               |
|          | 79       |          |              |          |  |  |          |          |              |               |
|          | 80       |          |              |          |  |  |          |          |              |               |
|          | 81       |          | Г            |          |  |  |          |          |              |               |
|          | 82       |          | $\vdash$     |          |  |  |          |          |              | $\overline{}$ |
|          | 82<br>83 |          | Т            |          |  | Т  |          |          |              |               |
|          | 84       |          |              | <u> </u> | $\vdash$   | $\vdash$   |          |          |              | _             |
|          | 85       |          | _            |          | H  |  | H        |          |              |               |
|          | 86       | _        | -            | $\vdash$ | _  | $\vdash$   |          | _        | -            | _             |
| -        | 87       | -        | _            | $\vdash$ | <del>                                     </del> | <del>                                     </del> | $\vdash$ | -        |              | $\vdash$      |
|          | 88       | $\vdash$ | $\vdash$     |          | $\vdash$   | $\vdash$   |          |          | $\vdash$     | $\vdash$      |
|          | 89       | <u> </u> | $\vdash$     | _        | <del>                                     </del> | ┢  | $\vdash$ |          | $\vdash$     | _             |
|          | 90       | $\vdash$ | ┝            | -        | $\vdash$   | ┢  | -        |          | -            | -             |
|          | 91       | -        | $\vdash$     | -        | ┢╾   | ┢  | -        |          |              | $\vdash$      |
| -        | 92       | -        | ┝            | ┢╾       | -  | -  | -        | -        | -            | -             |
| -        | 93       | $\vdash$ | -            | $\vdash$ | -  | $\vdash$   | -        | -        | H            | ┢             |
|          | 94       | $\vdash$ | ⊢            | $\vdash$ | ⊢  | $\vdash$   | $\vdash$ | _        | -            |               |
|          | 95       |          | -            | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$ |          |              |               |
| -        | 96       |          | $\vdash$     | $\vdash$ | <del> </del>                                     | $\vdash$   | $\vdash$ | _        | -            | _             |
| -        | 97       | -        | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$ |              | $\vdash$      |
|          | 98       | -        | $\vdash$     | ┢        | $\vdash$   | $\vdash$   |          | $\vdash$ | $\vdash$     | $\vdash$      |
| $\vdash$ | 99       |          | $\vdash$     | ┢        | <u> </u>   | $\vdash$   |          | -        | $\vdash$     | $\vdash$      |
|          | 100      |          | <del> </del> | $\vdash$ | _  | -  | -        | $\vdash$ |              | $\vdash$      |
|          |          |          |              |          |  |  |          |          |              |               |

| Claim        |   | Date   |          |  |              |              |          |              |                                     |               |  |  |
|--------------|---|--|----------|--|--------------|--------------|----------|--------------|-------------------------------------|---------------|--|--|
|              |   | H  | Г        | Г  |              |              | Ī        |              |                                     |               |  |  |
|              | Original  |  |          |  |              |              |          |              |                                     |               |  |  |
| Final        | Ē   | l  | İ        |  |              |              | l        |              | ŀ                                   |               |  |  |
| ╵╙╴          | ō   |  |          |  |              |              |          |              |                                     |               |  |  |
|              |   |  |          |  |              |              | _        |              |                                     | Щ             |  |  |
|              | 101<br>102  |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 102   |  |          | 1  | i            |              | 1        |              |                                     |               |  |  |
|              | 103<br>104<br>105<br>106                                    |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 104   |  |          | $\vdash$   |              |              |          | Г            |                                     |               |  |  |
| <b>-</b>     | 105   | ┢  | ┢        | $\vdash$   | -            |              | ┢═       | H            | $\vdash$                            | Н             |  |  |
|              | 106   | -  | $\vdash$ | $\vdash$   | -            |              | $\vdash$ |              | -                                   | H             |  |  |
|              | 107   | -  | -        | ⊢  | -            | -            | -        | ┝            |                                     | Н             |  |  |
| <u> </u>     | 107   | $\vdash$   | ⊢        | $\vdash$   | -            | -            | ⊢        | $\vdash$     | ⊢                                   | Н             |  |  |
|              | 108   | <u> </u>   | -        |  | ┡            |              | -        | $\vdash$     | $\vdash$                            | Н             |  |  |
|              | 109   | _  | _        | _  | _            |              | _        | _            | _                                   | ш             |  |  |
|              | 110   |  | _        |  |              |              | _        | _            |                                     |               |  |  |
| L            | 111   | <u>_</u>   | _        | _  | _            |              | _        | <u></u>      | _                                   | Ш             |  |  |
|              | 112   |  |          | L  | L            |              | L        | L            |                                     |               |  |  |
|              | 111<br>112<br>113   |  |          |  |              |              |          |              |                                     |               |  |  |
| [            | 114   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 114<br>115  |  |          |  | Ī            |              |          |              |                                     |               |  |  |
|              | 116   |  | $\vdash$ | $\vdash$   | Н            |              |          | _            | $\vdash$                            | $\vdash$      |  |  |
| <b></b>      | 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124 | <del>                                     </del> | $\vdash$ | $\vdash$   | $\vdash$     |              | $\vdash$ | $\vdash$     | Н                                   | Н             |  |  |
| <u> </u>     | 110   | ├-   | -        | -  | $\vdash$     |              | $\vdash$ | $\vdash$     | $\vdash$                            | Н             |  |  |
|              | 110   | _  | -        | ┝  | -            |              | _        | <u> </u>     |                                     | Н             |  |  |
| -            | 119   | -  | <u> </u> | ┝  | ├—           | _            |          | <u> </u>     | ┝                                   | Н             |  |  |
|              | 120   | <u> </u>   | ┝        | $\vdash$   | $\vdash$     |              | <u> </u> | ┝            | ⊢                                   | <del>  </del> |  |  |
|              | 121   | _  |          | ļ  | <u> </u>     |              |          | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш             |  |  |
|              | 122   |  |          | <u> </u>   | L.           |              |          |              | _                                   | Щ             |  |  |
|              | 123   | _  | _        |  | _            |              |          |              | _                                   |               |  |  |
|              | 124   |  |          | L  |              |              |          |              |                                     |               |  |  |
|              | 125   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 126   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 127   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 128   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 129   |  |          |  |              |              |          |              | Г                                   |               |  |  |
|              | 130   |  | _        |  | ╌            |              |          |              | Т                                   | $\Box$        |  |  |
|              | 131   | $\vdash$   | Н        | $\vdash$   | _            | _            |          |              |                                     | $\vdash$      |  |  |
| $\vdash$     | 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132        | $\vdash$   | -        | Н  | $\vdash$     |              | -        |              |                                     | $\vdash$      |  |  |
|              | 122   |  | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$                            | $\vdash$      |  |  |
| <del> </del> | 133<br>134  | <del> </del>                                     |          | <del>                                     </del> | <del> </del> | $\vdash$     | H        | <del> </del> | $\vdash$                            | Н             |  |  |
| <u> </u>     | 134   | $\vdash$   | Н        | $\vdash$   | <u> </u>     | <del> </del> | $\vdash$ | -            | -                                   | $\vdash$      |  |  |
| <b> </b>     | 135   | -  | $\vdash$ | $\vdash$   | <u> </u>     | H            |          | _            | -                                   | Н             |  |  |
| ļ            | 136<br>137<br>138   | <u> </u>   | <u> </u> | <u> </u>   | _            | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>                            | Щ             |  |  |
| L            | 137   | $\vdash$   | $\vdash$ | $\vdash$   | <u> </u>     | _            | <u> </u> |              | <u> </u>                            | Ш             |  |  |
|              | 138   | <u> </u>   | <u>_</u> | _  | <u> </u>     |              | L        | <u> </u>     | <u> </u>                            | Ш             |  |  |
| L            | 139<br>140  | <u> </u>   |          | _  | _            |              |          |              | <u>_</u>                            | Ш             |  |  |
|              | 140   | Ĺ  | L        | <u></u>  | <u>_</u>     |              |          | L            | <u></u>                             |               |  |  |
|              | 141   | L  |          |  |              |              |          |              |                                     |               |  |  |
|              | 142   |  |          |  |              |              |          |              | L                                   |               |  |  |
|              | 143   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 144   |  |          |  |              |              |          |              |                                     |               |  |  |
|              | 145   |  |          | Г  |              |              |          |              |                                     |               |  |  |
|              | 146   | $\vdash$   |          | П  | $\vdash$     |              | Т        |              |                                     | П             |  |  |
| <u> </u>     | 147   | $\vdash$   |          | Н  | _            |              | Ι        | Н            | П                                   | $\vdash$      |  |  |
| $\vdash$     | 148   | $\vdash$   | $\vdash$ | $\vdash$   | -            |              | $\vdash$ | $\vdash$     | $\vdash$                            | $\vdash$      |  |  |
| $\vdash$     | 149   |  | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | <del> </del>                        | $\vdash$      |  |  |
|              | 150   | -  | -        | $\vdash$   |              | <del> </del> | $\vdash$ | μ.           | $\vdash$                            | $\vdash$      |  |  |
|              | 100   | ı  |          | 1  | ı            |              |          |              |                                     |               |  |  |